

### ABSTRACT OF THE DISCLOSURE

Systems and methods for detecting and locating leaks in internal pressure vessels. A method generally includes forming a pressurizing cavity external to and adjacent an internal pressure vessel. A pressurized fluid is injected into the  
5 pressurizing cavity to cause pressurized fluid to flow from the pressurizing cavity through a leak into the internal pressure vessel. The internal pressure vessel is monitored to detect leakage of pressurized fluid into the internal pressure vessel.